

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): An optical scanning device comprising:

a light source;

a coupling lens coupling a beam emitted from said light source;

a light deflector deflecting the beam from said coupling lens at a uniform angular velocity;

a line-image imaging optical system disposed between said coupling lens and light deflector, and causing the beam to image a line image long along main scanning directions on or in the vicinity of a deflection reflective surface of said light deflector;

a scanning and imaging optical system causing the beam deflected by said light deflector to image a beam spot on a medium to be scanned; and

an optical housing in which said light source, coupling lens, light deflector, line-image imaging optical system and scanning and imaging optical system are disposed, and contained, and

wherein a plurality of holding and fixing locations for holding and fixing a light-source part comprising said light source and coupling lens are provided in at least one of said light-source part and optical housing,

wherein said plurality of holding and fixing locations comprise pins and holes provided to the light source part and the optical housing, which pins and holes are combined with insertion of the pins to the holes to determine a relative spatial relationship between the light source part and the optical housing, and

wherein said plurality of holding and fixing locations are those from which a selection is made as to where the light-source part is fixed, whereby a location of said light-source part

is determined according to the selection, wherein the selection is made based on whether a glass cover is inserted between the coupling lens and the first deflector.

Claim 2 (Previously Presented): The device as claimed in claim 1, wherein:
said glass cover is inserted to cover said light deflector;
said cover has a window for the beam to be incident on and exit from said light deflector; and
a transparent cover member is mountable on said window, and
wherein said holding and fixing locations are determined so that, by selectably using said holding and fixing locations, the beam deflected by said light deflector passes through said scanning and imaging optical system approximately at a position that is the same whether or not said transparent cover member is mounted.

Claim 3 (Original): The device as claimed in claim 1, wherein said light-source part and line-image imaging optical system are disposed on a common member.

Claim 4 (Original): The device as claimed in claim 1, wherein said coupling lens and line-image imaging optical system are formed integrally.

Claim 5 (Original): The device as claimed in claim 1, wherein said light-source part comprises a plurality of light-emitting sources.

Claim 6 (Original): The device as claimed in claim 3, wherein the beam emitted from said light-source part comprises an approximately parallel beam.

Claim 7 (Original): The device as claimed in claim 4, wherein the beam emitted from said light-source part comprises an approximately parallel beam.

Claim 8 (Previously Presented): An optical scanning device comprising:

- a light-source unit emitting a beam;
- a first imaging optical system causing the beam emitted by said light-source unit to image at a predetermined position;
- a deflector receiving the beam from said first imaging optical system and performing scanning with the beam; and
- a second imaging optical system causing the beam from said deflector to image a beam spot on a surface to be scanned, and

wherein:

- said light-source unit, first imaging optical system, deflector and second imaging optical system are mounted in a box housing;
- a transparent member of an approximately parallel plate is disposed detachably so as to be located between said first imaging optical system and deflector and between said deflector and second imaging optical system;
- a mounting position of said second imaging optical system is changeable according to whether or not said transparent member is provided; and
- wherein a change of the mounting position of said second imaging optical system according to whether or not the transparent member is used is achieved by a selection of the mounting position of said second imaging optical system from among a plurality of predetermined locations, and
- wherein said plurality of predetermined locations comprise projections and receiving members provided to the second imaging optical system and the box housing, which

projections and receiving members are combined with contact therebetween to determine the mounting position of said second imaging optical system in the box housing.

Claim 9 (Previously Presented): The device as claimed in claim 8, wherein the mounting position of said second imaging optical system along main scanning directions is changeable according to whether or not said transparent member is used.

Claim 10 (Previously Presented): The device as claimed in claim 8, wherein the mounting position of said second imaging optical system along directions of an optical axis thereof is changeable according to whether or not said transparent member is used.

Claim 11 (Previously Presented): The device as claimed in claim 8, wherein the mounting position of said second imaging optical system along main scanning directions and directions of an optical axis thereof is changeable according to whether or not said transparent member is used.

Claim 12 (Previously Presented): An optical scanning device comprising:
light emitting means for emitting a beam;
coupling means for coupling the beam emitted by said light emitting means;
light deflecting means for deflecting an incident beam at a uniform angular velocity;
line-image imaging means for causing the beam coupled by said coupling means to image a line image long along main scanning directions on or in the vicinity of a deflection reflective surface of said light deflecting means;
scanning and imaging means for causing the beam deflected by said light deflecting means to image a beam spot on a medium to be scanned; and

an optical housing in which said light emitting means, coupling means, light deflecting means, line-image imaging means and scanning and imaging means are disposed, and contained, and

wherein a plurality of holding and fixing locations for holding and fixing a light-source part comprising said light emitting means and coupling means are provided in at least one of said light-source part and optical housing,

wherein said plurality of holding and fixing locations comprise pins and holes provided to the light source part and the optical housing, which pins and holes are combined with insertion of the pins to the holes to determine a relative spatial relationship between the light source part and the optical housing, and

wherein said plurality of holding and fixing locations are those from which a selection is made as to where the light-source part is fixed, whereby a location of said light-source part is determined according to the selection, wherein the selection is made based on whether a glass cover is inserted between the coupling lens and the first deflector.

Claim 13 (Previously Presented): An optical scanning device comprising:

light-source means for emitting a beam;

first imaging means for causing the beam emitted by said light-source means to image at a predetermined position;

deflecting means for receiving the beam from said first imaging means and performing scanning with the beam; and

second imaging means for causing the beam from said deflecting means to image a beam spot on a surface to be scanned, and

wherein:

said light-source means, first imaging means, deflecting means and second imaging means are mounted in a box housing;

a transparent member of an approximately parallel plate is disposed detachably so as to be located between said first imaging means and deflecting means and between said deflecting means and second imaging means;

a mounting position of said second imaging means is chargeable according to whether or not said transparent member is provided; and

wherein a change of the mounting position of said second imaging optical system according to whether or not the transparent member is used is achieved by a selection of the mounting position of said second imaging optical system from among a plurality of predetermined locations, and

wherein said plurality of predetermined locations comprise projections and receiving members provided to the second imaging optical system and the box housing, which projections and receiving members are combined with contact therebetween to determine the mounting position of said second imaging optical system in the box housing.

Claim 14 (Previously Presented): An image forming apparatus comprising:

an optical scanning device scanning a surface of a photosensitive body with a beam so as to form a latent image on said photosensitive body;

said photosensitive body;

a developing device developing the latent image so as to form a visible image;

a transferring device transferring the visible image to a sheet recording medium; and

a fixing device fixing the visible image onto the sheet recording medium, and

wherein said optical scanning device comprises:

a light source;

a coupling lens coupling a beam emitted from said light source;

a light deflector deflecting the beam from said coupling lens at a uniform angular velocity;

a line-image imaging optical system disposed between said coupling lens and light deflector, and causing the beam to image a line image long along main scanning directions on or in the vicinity of a deflection reflective surface of said light deflector;

a scanning and imaging optical system causing the beam deflected by said light deflector to image a beam spot on a medium to be scanned; and

an optical housing in which said light source, coupling lens, light deflector, line-image imaging optical system and scanning and imaging optical system are disposed, and contained, and

wherein a plurality of holding and fixing locations for holding and fixing a light-source part comprising said light source and coupling lens are provided in at least one of said light-source part and optical housing,

wherein said plurality of holding and fixing locations comprise pins and holes provided to the light source part and the optical housing, which pins and holes are combined with insertion of the pins to the holes to determine a relative spatial relationship between the light source part and the optical housing, and

wherein said plurality of holding and fixing locations are those from which a selection is made as to where the light-source part is fixed, whereby a location of said light-source part is determined according to the selection, wherein the selection is made based on whether a glass cover is inserted between the coupling lens and the first deflector.

Claim 15 (Previously Presented): An image forming apparatus comprising:

an optical scanning device scanning a surface of a photosensitive body with a beam so as to form a latent image on said photosensitive body;

said photosensitive body;

a developing device developing the latent image so as to form a visible image;

a transferring device transferring the visible image to a sheet recording medium; and

a fixing device fixing the visible image onto the sheet recording medium, and

wherein said optical scanning device comprises:

a light-source unit emitting a beam;

a first imaging optical system causing the beam emitted by said light-source unit to image at a predetermined position;

a deflector receiving the beam from said first imaging optical system and performing scanning with the beam; and

a second imaging optical system causing the beam from said deflector to image a beam spot on a surface to be scanned, and

wherein:

said light-source unit, first imaging optical system, deflector and second imaging optical system are mounted in a box housing;

a transparent member of an approximately parallel plate is disposed detachably so as to be located between said first imaging optical system and deflector and between said deflector and second imaging optical system;

a mounting position of said second imaging optical system is changeable according to whether or not said transparent member is used; and

wherein a change of the mounting position of said second imaging optical system according to whether or not the transparent member is used is achieved by a selection of the

mounting position of said second imaging optical system from among a plurality of predetermined locations, and

wherein said plurality of predetermined locations comprise projections and receiving members provided to the second imaging optical system and the box housing, which projections and receiving members are combined with contact therebetween to determine the mounting position of said second imaging optical system in the box housing.

Claim 16 (New): The device as claimed in claim 1, wherein the plurality of fixing and holding locations permit the light source to be positioned at different positions in a direction perpendicular to an optical axis direction.

Claim 17 (New): The device as claimed in claim 8, wherein the plurality of predetermined locations permit the light-source unit to be positioned at different positions in a direction perpendicular to an optical axis direction.

Claim 18 (New): The device as claimed in claim 12, wherein the plurality of fixing and holding locations permit the light emitting means to be positioned at different positions in a direction perpendicular to an optical axis direction.

Claim 19 (New): The device as claimed in claim 13, wherein the plurality of predetermined locations permit the light-source means to be positioned at different positions in a direction perpendicular to an optical axis direction.

Claim 20 (New): The device as claimed in claim 14, wherein the plurality of fixing and holding locations permit the light source to be positioned at different positions in a direction perpendicular to an optical axis direction.

Claim 21 (New): The device as claimed in claim 15, wherein the plurality of predetermined locations permit the light-source unit to be positioned at different positions in a direction perpendicular to an optical axis direction.